Mojo Color™ Product User Guide

(MOC,MOC-150)

Mojo Color-One color wheel with 16 color

Geni Electronics Co., Ltd.

THANK YOU!

Thank you for buying a Geni product. For best results, please carefully read and follow the directions in this product user manual.

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Product specifications may be subject to change.
For more information, please visit our web site:
http://www.geni.com.tw. Thank you!

Congratulations!

You have a great, innovative product from Geni Electronics Co., Ltd. Geni Mojo Color™ changer make anyplace festive. Whether you want simple plug-&-play action or a sophisticated DMX show, this product series has an effect for you.

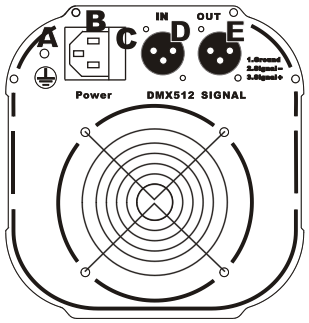
You can rely on Geni Electronics Co., Ltd., for more excellent lighting products. We design and manufacture strobes, effects, and mirrored projectors. And new products are being launched regularly. For information, please visit our web site at http://www.geni.com.tw. We work hard to keep you, our customer, satisfied.

You can get some of the best quality, best priced products on the market from Geni. So next time, turn to Geni for more great lighting equipment. Always get the best -- with Geni.

Thank you!

Geni Electronics Co., Ltd.

Appendix B-Back Panel



A - Earth (Ground)
B - IEC power connector
C - Fuse holder
D - DMX signal Canon connector (IN)
E - DMX signal Canon connector (OUT)

Figure 6

Appendix A - DMX Dip Switch Value Guide

DMX products must have their own "address" to receive DMX signals. Addresses on MOC products are set by flipping appropriate DMX dip Switches.

To do this, you need to know that DMX dip switches have the following values: #1 =1; #2=2; #3=4: #4=8; #5=16; #6=32; #7=64; #8=128; #9=256. And you need to know that DMX address settings are the sum of the dip switch values.

For example, standard DMX addresses for four MOC changer, each of which has four channels , Follow:

MOC	Address Value	DMX Dip Switches "ON"
Unit 1	1	#1
Unit 2	2	#2
Unit 3	3	#1,#2
Unit 4	4	#3

Explanation: Since each unit has four channels, each address advances four values (See Address Value above).

Once address values are figured out, add DMX dip switch values to obtain the appropriate address (DMX Dip Switches "ON") for each unit. Flip appropriate DMX dip switches on each unit.

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The lamp for MOC differs from that of MOC-150, beides this all other features between are the same. In this manual, all features description of MOC alos applies to MOC-150.

Description

Mojo Color™ Small color changer with high output, great effect, instant audio shows and DMX control.
Mojo Color™-One color wheel with 16 colors.
The set up, control, and functions of various Mojo Color™ may differ. Please refer to specific product headings in this manual.

Warning!

Like all electronic products, Mojo Color™ changer lights must be used with common safety precautions in mind.

- Mojo Color™ color changer lights contain no user-serviceable parts. Refer servicing to qualified technicians only.
- Disconnect from electric mains power supply before removing covers or changing lamps. Keep case closed while operating. Do not insert objects into air vents.
- Keep away from flames and flammable material. Keep away from liquids. Never operate in rain or in damp conditions.
- If effect lights are dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- Lamp and metal become hot during operation. Allow time to cool before handling. Do not touch lamp bulb glass with bare hands.
- Read user manual instructions thoroughly before operating. Follow the instructions. Never remove warning or informative labels from the unit.
- This appliance must be earthed.

Product Specifications

Name: Mojo Color™
Model: MOC
Voltage: 230V~50Hz (CE)
Power consumption: 300W
Fuse: T3.15A
Dimensions: 280x220x160 mm
Weight: 6 kg
Lamp: 24V/250W ELC GX5.3* or
24V/250W EHJ G6.35*

Name: Mojo Color™
Model: MOC
Voltage: 120V~50/60Hz
Power consumption: 300W
Fuse: T3.15A
Dimensions: 280x220x160 mm
Weight: 6 kg
Lamp: 24V/250W ELC GX5.3* or
24V/250W EHJ G6.35*

Name: Mojo Color™
Model: MOC-150
Voltage: 230V~50Hz (CE)
Power consumption: 200W
Fuse: 5A
Dimensions: 280x220x160 mm
Weight: 6.7 kg
Lamp: HTI 150W

Name: Mojo Color™
Model: MOC-150
Voltage: 120V~50/60Hz
Power consumption: 250W
Fuse: 5A
Dimensions: 280x220x160 mm
Weight: 6 .7kg
Lamp: HTI 150W

*: Versions for other lamps may be produced. Please check the specification label on your product.

Product specifications may be subject to change. Please visit www.geni.com.tw for details.

Troubleshooting

This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps. If the effect does not operate properly, refer servicing to a technician.

No Light, No Movement - All Products

Response: Suspect three potential problem areas: the power supply, the lamp, the fuse.

1. Power supply. Check that the unit is plugged into an appropriate power supply.
2. The lamp. Replace the old lamp with a new one of appropriate specifications. See directions above for replacing lamps.
3. The fuse. Replace the fuse. See directions above for replacing the fuse.

No Response to DMX

Response: Suspect the DMX dip switch setting, DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.

1. Check the DMX dip switch setting. Make sure the DMX dip switch address setting is correct.
2. Check the DMX cable: Unplug the unit; change the DMX cable; resupply electrical power. Try your DMX control again.
3. Determine whetherthe controller or light effect is at fault. Does the controller operate other DMX products properly? If not, take the controller in for repair. If so, take the DMX cable and the light effect to a qualified technician.

No Response to Audio

1. Check the function setting of the first unit. Make sure that function dip switch #1 is on. (Function dip switch #1 on = audio control.)
2. Turn UD the music volume

Getting Ready

All Geni products are thoroughly tested at the factory and shipped in perfect condition. If damage has occurred during shipping or if components are missing, please contact your Geni dealer immediately.

Your package should include:
(1) One Mojo Color™ color changer with bracket.
(2) One IEC electric mains power cord with plug.
(3) One product user manual.

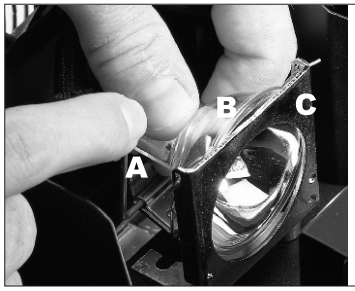
The lamp may or may not be included, depending on your GENI dealer. In most cases, the lamp is not included.

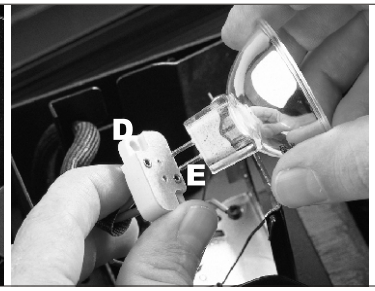
Install the Lamp (ELC)

Mojo Color™ color changer use either the GX5.3 24V/250W lamp by Osram or the ELC lamp of identical specifications by Philips. Use only the appropriate lamp for your unit. Note that product versions that use other lamps may be offered in the future. Check your product specification label for information.

Lamp Installation (ELC)

(1) Loosen the two screws on the top of the lamp cover. Open the case.
(2) Read lamp instructions. Do not touch the lamp bulb glass. (See Figure 1.)
Oil on hands shortens the lamp life. (If you touch the bulb glass, wipe off the glass with a clean, lint-free towel and rubbing alcohol.)
(3) Hold the lamp socket with one hand. Insert the lamp pins into the holes in the lamp socket.
(4) Make sure that the lever is up. Slide the lamp into the lamp base.
(5) Put on the lamp cover and fasten the screws snugly.





Lamp Items

A - Lever
B - "ELC" Lamp
C - Lamp Base
D - Lamp Socket
E - Lamp Pins

Figure 1

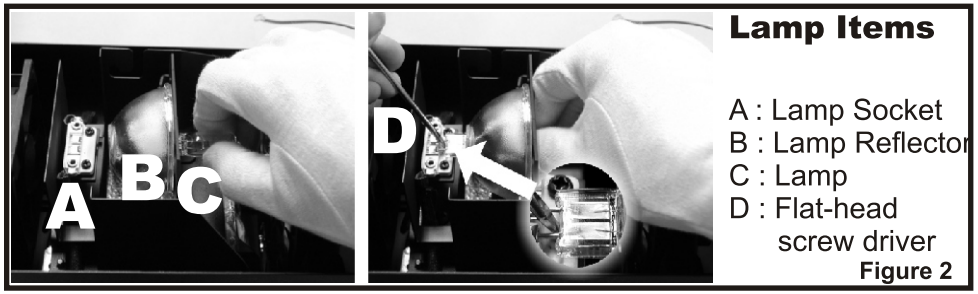
IInstall the Lamp (EHJ)

Mojo Color™ use either the HLX 64655 24V/250W lamp by Osram or the EHJ lamp of identical specifications by Philips. Use only the appropriate lamp for your unit. Note that product versions that use other lamps may be offered in the future. Check your product specification label for information.

Lamp Installation (EHJ)

(1) Loosen the two screws on the top of the lamp cover. Open the case.
(2) Read lamp instructions. Do not touch the lamp bulb glass. (See Figure 2.) Oil on hands shortens the lamp life. (If you touch the bulb glass, wipe off the glass with a clean, lint-free towel and rubbing alcohol.)
(3)Glove your hand before installing the lamp. Hold the lamp socket with one hand. Insert the lamp pins into the holes in the lamp socket.
(4) Make sure that the lever is up. Slide the lamp into the lamp base.
(5) Put on the lamp cover and fasten the screws snugly.

Remarks: To replace the lamp, using a small flat-head screw driver to push the lamp out of the lamp socket.



Lamp Items

A : Lamp Socket
B : Lamp Reflector
C : Lamp
D : Flat-head screw driver

Figure 2

Install the Lamp (MOC-150)

MOC-150 use the HTI 150W lamp by Osram only.

Lamp Installation (MOC-150)

1 .Make sure the unit is un-plugged in advance. Loosen the screws on the upper cover with a flat screwdriver, open the upper cover.
2.Use fingers to loosen screw A,B,C in sequence. Hold on to screw A, C and pull backward. (See Figure 3.)
3.Hold on the tube with gloved right hand. The tube will be catapulted by pressing the lever D backward with left hand.
4.Repeat procedure 1 & 2 before installing the tube. Insert the pins of tube into the bottom of socket E. (Note: The small hole is on lever D side)
5.After installing the tube, tighten up screw A & C simultaneously, next tighten up screw B. Lock up the upper cover to get jobs done.

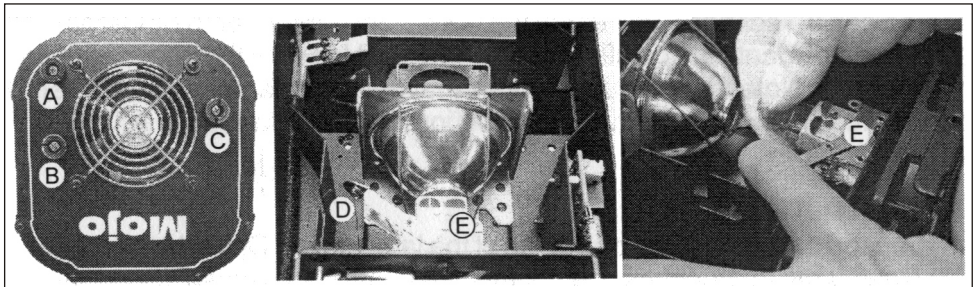


Figure 3

Maintenance

Mojo Color™ color changers require almost no maintenance. However, you should:

- Keep the unit clean. Disconnect the mains power supply, then wipe the cover with a damp cloth. Do not immerse in liquid. Wipe lens clean with glass cleaner and a soft cloth. Clean internal components about once a year with a light brush and vacuum cleaner. Do not use alcohol or solvents.

- Keep connections clean. Disconnect electric power, then wipe the DMX and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

Changing the Lamp

If electrical power is supplied and the lamp does not light, it may be time to change the lamp.

Replacing a Fuse

Power surges or inappropriate electrical power supply may cause a fuse to bum out. If the fuse bums out, the product will not function whatsoever. If this happens, replace the fuse as follows:

1) Unplug the unit from electric power source.
2) Insert a flat-head screwdriver into a slot in the fuse cover (C in figure 6). Gently pry up the fuse cover.
3) Note two fuses: The replacement fuse is covered; The used fuse has both ends exposed. Remove the used fuse. If brown or unclear, it is burned out.
4) Push the replacement fuse out of its cover, then insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover.

Products are packed with a replacement fuse. If your replacement fuse is missing, a new one can be purchased at an electric appliance store. Be sure to use a fuse of the same type and specification. See the product specification label for details.

Function Dip Switch Chart

Dip	OFF Mode	ON Mode
#1	Single unit show mode	Single unit audio show mode
#2	Single unit audio mode	4-unit audio show mode, master
#3	Single unit audio mode	Self-test mode
#4	Single unit audio mode	Single, slow show mode
#5	Single unit audio mode	Focus assistance
#6	1- unit audio, mixed show	Audio low BPM show mode
#7	1-unit audio, mixed show	Audio high BPM show mode
#8	Single unit audio mode	No program
#9	Single unit audio mode	No program

Applies only when audio mode (Func. dip switch "on") is activated. Otherwise, these channels are DMX address setting dip switches.

Mojo Color ™ DMX Channel Chart

CH1 -Colors

209-255	Strobe - 1 flash per 4 seconds to 4fps
160-208	Rotation slow - fast
150-159 (16)	Four-color Square
140-149 (15)	White & Green
130-139 (14)	Pink & White & Blue
120-129 (13)	Blue & White & Green
110-119 (12)	White & Yellow
100-109 (11)	Red & White &Orange
90-99 (10)	Pink Circle
80-89 (9)	Blue Circle
70-79 (8)	Light Blue Circle
60-69 (7)	Orange Circle
50-59 (6)	Green Circle
40-49 (5)	Yellow Circle
30-39 (4)	Dark Green Circle
20-29 (3)	Red Circle
10-19 (2)	White Circle
0-9 Shutter (1)	

0 Light unit automatically shuts off 5 seconds later.

Set Up and Operation

The set up and operation of all Mojo Color™ color changers is similar. The main difference is that function channels of various items vary, so that dip switch settings differ slightly. Follow directions below as they pertain to your particular product and your preferred operation mode.

Before plugging unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

One-unit Audio

(1) Fasten the effect light onto firm trussing (Use a 30-kg rated or stronger C- clamp fastened onto the Mojo Color bracket). Leave at least one meter on all sides for air circulation.
(2) Flip "on" Func. dip switch and dip switch #1.
(3) Plug one end of the electric mains power cord into the IEC socket on the unit. (See figure 6, page 12.) Then plug the other end of the cord into a proper electric power supply socket.
(4) Turn on the music. The scanner will change to the music.

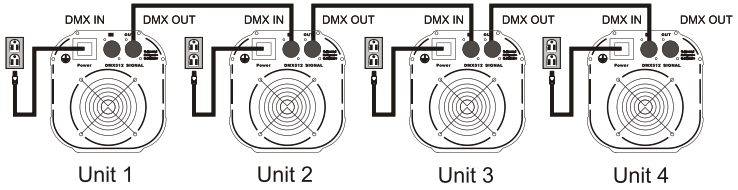
Four-unit Audio

1. Fasten the effect light onto firm trussing (Use a 30-kg rated or stronger C-clamp bolted onto the Mojo Color bracket). Leave at least one meter on all sides for air circulation.
2. Link the units as shown in figure 4, page 5. Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units.
3. Activate audio control: On the first unit, flip "on"- Func. dip switch
   Terminate the system: On the last unit, flip "on" -Term. dip switch.
4. Set DMX dip switches as follows.

MOC	Dip ON
Unit 1	#2
Unit 2	#2
Unit 3	#1,#2
Unit 4	#3

5. Supply electric power: Plug electric mains power cords into each unit's IEC socket (see figure 6), then plug the other end of the mains powercord into proper electric power supply sockets, starting with the first unit. Do not supply power before the whole system is set up and connected Properly.

Four-unit Audio Set Up



Note: Link cables and set dip switches before connecting electric power.

Figure 4

6. Turn on the music.

Note that up to 64 units can be connected and operated in audio mode. To do so, flip "on" DMX dip switch #1 on the 5th, 9th, 13th, etc., unit. Then repeat settings on following units, so 6th, 10th, 14th, etc., unit DMX settings = unit 2 settings; 7th, 11th, 15th, etc., Unit DMX settings = unit 3 settings; 8th, 12th, 16th unit settings = unit 4 settings.

DMX Control

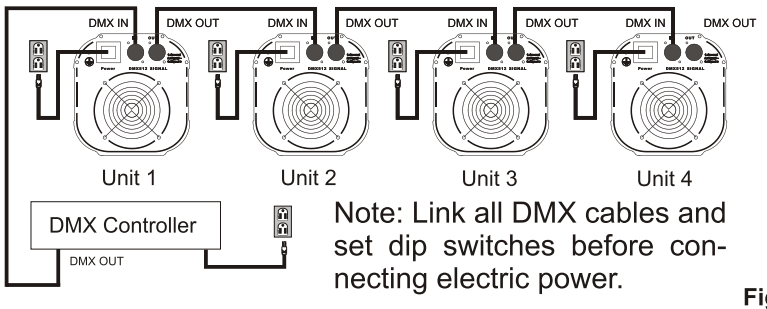
1. Fasten the effect light onto firm trussing (Use a 30-kg rated or stronger C-clamp bolted onto the Mojo Color ™ bracket). Leave at least one meter on all sides for air circulation.
2. Link the units as shown in Figure 5. Plug a DMX signal cable from the controller to the first unit's DMX "in" socket. Then plug a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link following units.
3. Set DMX dip switches as follows.

MOC	Dip ON
Unit 1	#1
Unit 2	#2
Unit 3	#1,#2
Unit 4	#3

For more units, continue to use standard DMX dip switch settings. See Appendix A for details.

4. On the last in a series of units, flip "on" the Terminate dip switch (Term. dip switch). This keeps the signal clear. Make sure other function dip switches are "off".
5. Supply electric power: Plug electric mains power cords into each unit's IEC socket (see figure 6), then plug the other end of the mains power cord into proper electric power supply sockets. Do so for all units and the controller.

DMX Set Up



Note: Link all DMX cables and set dip switches before connecting electric power.

Figure 5

Do not supply power before the whole system is set up and connected properly.

6. Design your show according to your DMX controller functions. DMX channel functions are shown on pages 7.

Product Operation Overview

In audio mode (Func. dip switch "on"), choose various shows by flipping regular dip switches on the first unit. For example, for a slow, four-unit audio show, flip "on" -Func. dip switch on the first unit to activate audio mode, then flip regular dip switches #2 and #6 "on" to activate a slow-paced, four-unit audio show. (See the following Function Channel Chart.)

Do not activate audio dip switches on following units, but set their DMX channels according to regular DMX procedures. (See Appendix A for an introduction to DMX dip switch settings.)

One final note: Terminate all systems by flipping "on" the (Term.) dip switch on the last unit. This preserves clear signal transmission in both audio and DMX modes.